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| **Term** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** |  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** |
| **Autumn 1 – 6 Weeks & 4 days** | **Autumn 2 – 8 Weeks** |
| **Autumn** | **Number: Place Value****4 Weeks** **Small Steps: 17** | **Number: Addition & Subtraction****3 Weeks** **Small Steps: 10** | **Consolidation/****Assessment** | **Number: Addition & Subtraction****3 Weeks** **Small Steps: 10** | **Measurement: Area****1 Week****Small Steps: 4** | **Number: Multiplication & Division A****3 Weeks** **Small Steps: 13** | **Number: Multiplication & Division B****3 Weeks****Small Steps:**  |
| **Spring 1 – 6 Weeks & 3 days** |  | **Spring 2 – 5 Weeks** |
| **Spring** | **Measurement: Length & Perimeter** **2 Weeks** **Small Steps:**  | **Number: Fractions****4 weeks****Small Steps:**  | **Consolidation/****Assessment** | **Number: Decimals A****3 Weeks****Small Steps:**  | **Number: Decimals B****2 Weeks****Small Steps:**  | **Consolidation/****Assessment** |  |
|  **Summer 1 – 6 Weeks** |  | **Summer 2 – 5 Weeks & 4 days** |
| **Summer** | **Measurement: Money****2 Weeks****Small Steps:**  | **Measurement: Time****2 Weeks****Small Steps:**  | **Consolidation/****Assessment** |  | **Geometry: Properties of Shape****2 Weeks****Small Steps:**  | **Statistics****1 Week****Small Steps:**  | **Geometry: Position & Direction****2 Weeks****Small Steps:**  | **Consolidation/****Assessment** |

YEAR 4 – KS2 Mathematics Curriculum Map 2022 -23

**Year 4 National Curriculum Objectives & White Rose Small Steps**

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| **Autumn** | **Number: Place Value – 4 Weeks** | **Number: Addition & Subtraction - 3 Weeks** | **Measurement: Area – 1 Week** | **Number: Multiplication & Division A –** **3 Weeks** | **Number: Multiplication & Division B –** **3 Weeks** |
| **National Curriculum Objectives** | * + - * count in multiples of 6, 7, 9, 25 and 1,000
			* find 1,000 more or less than a given number
			* count backwards through 0 to include negative numbers
			* recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
			* order and compare numbers beyond 1,000
			* identify, represent and estimate numbers using different representations
			* round any number to the nearest 10, 100 or 1,000
			* solve number and practical problems that involve all of the above and with increasingly large positive numbers
			* read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value
 | * add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
* estimate and use inverse operations to check answers to a calculation
* solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
 | * convert between different units of measure [for example, kilometre to metre; hour to minute]
* measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
* find the area of rectilinear shapes by counting squares
* estimate, compare and calculate different measures, including money in pounds and pence
 | * recall multiplication and division facts for multiplication tables up to 12 × 12
* use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
* recognise and use factor pairs and commutativity in mental calculations
* multiply two-digit and three-digit numbers by a one-digit number using formal written layout
* solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
 | * recall multiplication and division facts for multiplication tables up to 12 × 12
* use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
* recognise and use factor pairs and commutativity in mental calculations
* multiply two-digit and three-digit numbers by a one-digit number using formal written layout
* solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
 |
| **White Rose Small steps** | * Step 1: Represent numbers to 1,000
* Step 2: Partition numbers to 1,000
* Step 3: Number line to 1,000
* Step 4: Thousands
* Step 5: Represent numbers to 10,000
* Step 6: Partition numbers to 10,000
* Step 7: Flexible partitioning of numbers to 10,000
* Step 8: Find 1, 10, 100, 1,000 more or less
* Step 9: Number line to 10,000
* Step 10: Estimate on a number line to 10,000
* Step 11: Compare numbers to 10,000
* Step 12: Order numbers to 10,000
* Step 13: Roman numerals
* Step 14: Round to the nearest 10
* Step 15: Round to the nearest 100
* Step 16: Round to the nearest 1,000
* Step 17: Round to the nearest 10, 100 or 1,000
 | * Step 1: Add and subtract 1s, 10s, 100s and 1,000s
* Step 2: Add up to two 4-digit numbers – no exchange
* Step 3: Add two 4-digit numbers – one exchange
* Step 4: Add two 4-digit numbers – more than one exchange
* Step 5: Subtract two 4-digit numbers – no exchange
* Step 6: Subtract two 4-digit numbers – one exchange
* Step 7: Subtract two 4-digit numbers – more than one exchange
* Step 8: Efficient subtraction
* Step 9: Estimate answers
* Step 10: Checking strategies
 | * Step 1: What is area?
* Step 2: Count squares
* Step 3: Make shapes
* Step 4: Compare areas
 | * Step 1: Multiples of 3
* Step 2: Multiply and divide by 6
* Step 3: 6 times-table and division facts
* Step 4: Multiply and divide by 9
* Step 5: 9 times-table and division facts
* Step 6: The 3, 6 and 9 times-tables
* Step 7: Multiply and divide by 7
* Step 8: 7 times-table and division facts
* Step 9: 11 times-table and division facts
* Step 10: 12 times-table and division facts
* Step 11: Multiply by 1 and 0
* Step 12: Divide a number by 1 and itself
* Step 13: Multiply three numbers
 | * Released November 2022
 |
| **Spring** | **Measurement: Length & Perimeter – 2 Weeks** | **Number: Fractions – 4 Weeks** | **Number: Decimals A – 3 Weeks** | **Number: Decimals B– 2 Weeks** |
| **National Curriculum Objectives** | • convert between different units of measure [for example, kilometre to metre; hour to minute]• measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres• find the area of rectilinear shapes by counting squaresestimate, compare and calculate different measures, including money in pounds and pence | * recognise and show, using diagrams, families of common equivalent fractions
* count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
* solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number
* add and subtract fractions with the same denominator
* recognise and write decimal equivalents of any number of tenths or hundreds
* recognise and write decimal equivalents to , ,
* find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
* round decimals with 1 decimal place to the nearest whole number
* compare numbers with the same number of decimal places up to 2 decimal places
* solve simple measure and money problems involving fractions and decimals to 2 decimal places
 | * count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
* recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
* recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
* recognise and show, using diagrams, equivalent fractions with small denominators
* add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7 ]
* compare and order unit fractions, and fractions with the same denominators
* solve problems that involve all of the above
 | * round decimals with 1 decimal place to the nearest whole number
* compare numbers with the same number of decimal places up to 2 decimal places
* solve simple measure and money problems involving fractions and decimals to 2 decimal places
 |
| **White Rose Small steps** | * Released November 2022
 | * Released November 2022
 | * Released November 2022
 | Released November 2022 |
| **Summer** | **Measurement: Money – 2 Weeks** | **Measurement: Time – 2 Weeks** | **Geometry: Properties of Shape – 2 Weeks** | **Statistics – 1 Week** | **Geometry: Position & Directions – 2 Weeks** |
| **National Curriculum Objectives** | * convert between different units of measure [for example, kilometre to metre; hour to minute]
* estimate, compare and calculate different measures, including money in pounds and pence
 | * convert between different units of measure [for example, kilometre to metre; hour to minute]
* read, write and convert time between analogue and digital 12- and 24-hour clocks
* solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days
 | * compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
* identify acute and obtuse angles and compare and order angles up to 2 right angles by size
* identify lines of symmetry in 2-D shapes presented in different orientations
* complete a simple symmetric figure with respect to a specific line of symmetry
 | * interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
* solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
 | * describe positions on a 2-D grid as coordinates in the first quadrant
* describe movements between positions as translations of a given unit to the left/right and up/down
* plot specified points and draw sides to complete a given polygon
 |
| **White Rose Small steps** | * Released in March 2023
 | Released in March 2023 | * Released in March 2023
 | * Released in March 2023
 | * Released in March 2023
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